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Modeling of the APS plasma spray process using artificial neural networks: basis, requirements and an example

S. Guessasma, G. Montavon, ... - *Compositional materials science*, 2004 - Elsevier
 ... are kinematic parameters influencing particularly the deposit microstructure characteristics and the thermal exchanges since they control, for a ..., porosity level increases with the decrease of the current intensity, the increase of total plasma gas flow rate, spray distance, etc. ...

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Designing expert system using neural computation in view of the control of plasma spray processes

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Microstructure of APS alumina-titania coatings analysed using artificial neural network

S. Guessasma, ... - *Acta materialia*, 2004 - Elsevier
 ... The coating quality control of such technique generally considers the monitoring of the molten feedstock particle characteristics (ie. ... 1), arc current (I), argon primary plasma gas flow rate (A) and hydrogen secondary plasma gas flow ... Spray configuration, Spray distance, mm, 125. ...

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Plasma Spray Process On-Line Control by Artificial Intelligence Methodology

AF Karim, G. Montavon, ... - *Advanced Engineering*, ..., 2007 - Wiley Online Library
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Artificial Neural Networks vs. Fuzzy Logic: Simple Tools to Predict and Control Complex Processes—Application to Plasma Spray Processes

AF Karim, G. Montavon, M. Vardelle, ... - *Journal of Thermal Spray*, ..., 2008 - Springer
 ... a real value from the result of the inference is produced and can be used as a fuzzy control input FL ... tool (CCD camera equipped with filters and a short, ie, a few ms, aperture duration) for each spray parameter set to obtain an optimal particle trajectory within the plasma flow. ...

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Combination of inverse and neural network methods to estimate heat flux

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 ... experimental ones allowing the identification of the control factors. Author Keywords: Artificial neural network; Atmospheric plasma spray process; Process control; Diagnostic tool; In-flight particle characteristics; Processing parameters. ...

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Application of backward propagation network for forecasting hardness and porosity of coatings by plasma spraying

L. Wang, JC Feng, ZY Zhao, ... - *Surface and Coatings Technology*, 2007 - Elsevier
 ... Plasma spray forming has been showing overwhelming advantages in rapid fabricating parts and molds, in ... A robust methodology that takes into account the relationship between the spray parameters and processing variables is urgently needed to control the forming ...

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Al2O3-13% weight TiO2 deposit profiles as a function of the atmospheric plasma spraying processing parameters

S. Guessasma, F. Talle, G. Montavon, ... - *Materials & design*, 2004 - Elsevier
 ... This control is conditioned essentially by the following factors: - the complexity level of coated piece ... to form the coating - the particle state modifications during the flight in the plasma jet ... a heuristic model is implemented in order to study the effects of the spray parameters on ...

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